

**The Clorox Company**1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000**Material Safety
Data Sheet**

I Product: ARMOR ALL WHEEL CLEANER														
Description: CLEAR, SOAPY LIQUID WITH SOLVENT ODOR														
Other Designations	Distributor	Emergency Telephone Nos.												
	Armor All Products Corporation 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call: Rocky Mountain Poison Center: 1-800-446-1014 For Transportation Emergencies, call: Chemtrec: 1-800-424-9300												
II Health Hazard Data		III Hazardous Ingredients												
<p>INGESTION- Product contains oxalic acid, which can be harmful or fatal if ingested in large amounts. Oxalic acid acts by disrupting the calcium balance in the body. Death may result from cardiac arrest. Oxalic acid may also accumulate in the kidney causing damage. The oral LD₅₀ of this product, in rats, is greater than 5 g/kg.</p> <p>EYES- Contact can result in severe, but temporary irritation.</p> <p>SKIN- Contact can cause irritation after prolonged or repeated use. Prolonged immersion in oxalic acid solutions may cause temporary numbness, tingling and pain.</p> <p>INHALATION- Inhalation of high concentrations of isopropanol vapors may cause irritation of the eyes and respiratory tract, drowsiness, fatigue and stupor.</p> <p>FIRST AID: IF SWALLOWED- drink a glassful of milk or water. EYES- Flush with water for 15 minutes. In either case, call a physician or poison control center immediately. SKIN- remove contaminated clothing and wash area thoroughly with water.</p> <p>No medical conditions are known to be aggravated by exposure to this product. Under directed consumer use conditions, this product is not expected to produce adverse health effects.</p> <p>KEEP OUT OF THE REACH OF CHILDREN</p>		<table border="1"><thead><tr><th>Ingredient</th><th>Concentration</th><th>Worker Exposure Limit</th></tr></thead><tbody><tr><td>Oxalic Acid CAS #144-62-7</td><td>1-5%</td><td>1 mg/m³ TLV-TWA^A 2 mg/m³ STEL^B 1 mg/m³ PEL^C</td></tr><tr><td>Isopropanol CAS #67-63-0</td><td>5-10%</td><td>400 ppm^A 500 ppm¹ 400 ppm^C</td></tr><tr><td>C₁₀-C₁₆ Dodecylbenzene-sulfonic acid CAS #68584-22-5</td><td>5-10%</td><td>none established</td></tr></tbody></table> <p>^AACGIH Threshold Limit Value, Time Weighted Average, 1996. ^BACGIH Short Term Exposure Limit, 1996. ^CPEL = OSHA Permissible Exposure Limit</p> <p>None of the ingredients in this product is on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Oxalic Acid CAS #144-62-7	1-5%	1 mg/m ³ TLV-TWA ^A 2 mg/m ³ STEL ^B 1 mg/m ³ PEL ^C	Isopropanol CAS #67-63-0	5-10%	400 ppm ^A 500 ppm ¹ 400 ppm ^C	C ₁₀ -C ₁₆ Dodecylbenzene-sulfonic acid CAS #68584-22-5	5-10%	none established
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IV Special Protection and Precautions		V Transportation and Regulatory Data												
<p>No special protection or precautions have been identified for using this product under typical consumer use conditions. The following recommendations are given for production facilities and for other conditions where there is increased potential for accidental, large-scale, or prolonged exposure:</p> <p>Hygienic Practices: Wear safety glasses and gloves (neoprene or nitrile) when working with product. Do not enter enclosed areas containing product without proper respiratory protection. Discontinue exposure to product if irritation or other adverse reactions develop.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to vapors.</p> <p>Work Practices: Avoid skin and eye contact.</p>		<p>DOT Proper Shipping Name: Consumer Commodity ORM-D.</p> <p>IMDG Proper Shipping Name: Dangerous Goods in Limited Quantities of Class 8.</p> <p>IATA Proper Shipping Name: Corrosive liquid, n.o.s., Class 8, Packing Group III.</p> <p>EPA-SARA Title III/CERCLA: Product is not reportable under Sections 311/312. Product contains dodecylbenzene sulfonic acid (CAS# 27176-87-0), which is regulated under 304/CERCLA.</p> <p>TSCA: All component chemicals are listed on the TSCA inventory.</p>												
VI Spill Procedures/Waste Disposal		VII Reactivity Data												
<p>Steps to be taken in case material is released or spilled: Eliminate all sources of ignition. Ventilate area. Mop up excess. Flush off any remaining material with soapy water. Flush again. Respiratory Protection: If handling large industrial or warehouse spills, use NIOSH approved respiratory protection.</p> <p>Waste Disposal: Dispose of in accordance with all applicable, federal, state and local regulations for consumer products. Empty bottles may be landfilled.</p>		<p>Stability: Stable</p> <p>Hazardous Polymerization or Decomposition: None known.</p>												
VIII Fire and Explosion Data		IX Physical Data												
<p>Flashpoint: Flashpoint of liquid is 100°F using a closed cup Herzog tester. Product does not sustain combustion.</p> <p>Fire Extinguishing Agents: All Types.</p> <p>Special Fire Fighting Procedures: N/A</p> <p>Unusual Fire and Explosion Hazards: N/A</p>		<p>Density 1.008 g/ml</p> <p>Solubility in water complete</p> <p>pH..... Approximately 1.0</p> <p>Viscosity..... 300-400 cps</p>												

Comments:

1. Modification of MSDS for Armor All Wheel Cleaner Formula- F1990.0022
2. Corrected typo in concentration range of surfactant.
3. Updated viscosity, density and pH based on data from manufacturing.
4. Delete- [Update may be required based on Sulfur Dioxide content]. Surfactant changed before production to low SO₂ version.